AX-7 Nov, 2001



SERVICE NOTES

First edition Issued by RES

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Specifications

Keyboard: 45-key keyboard with Velocity Sensitivity (TP-7 BA type)

Display: 3 x 7 segments display view control

Realtime controllers: Data Entry Knob, Touch Controller, Expression Bar, Hold Button, D-Beam

Memories: 128 Patches

Connections: MIDI In, Out; DC IN (adaptor)

Power supply: Battery-operated, Optional AC/DC Adaptor ACA (DC 9V)

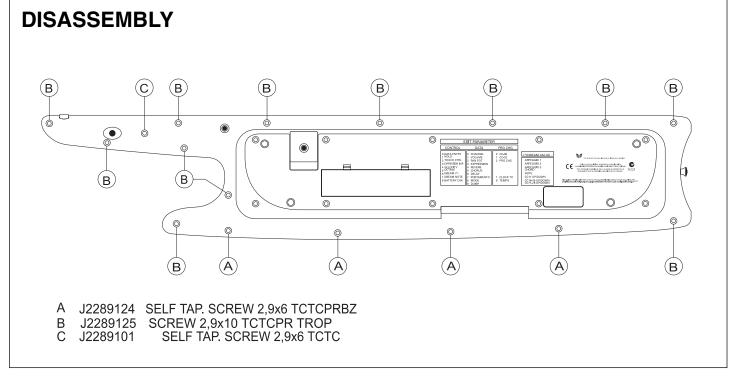
Dimension: 1010 (W) x 195 (D) x 102 (H) mm

Weight:: 3,0 Kg

Supplied accessories: 6 x dry batteries (AA type), MIDI cable, Owner's Manual, Shoulder strap

Specifications subject to change without prior notice. All other trademarks mentioned in this manual are the property of the respective companies.

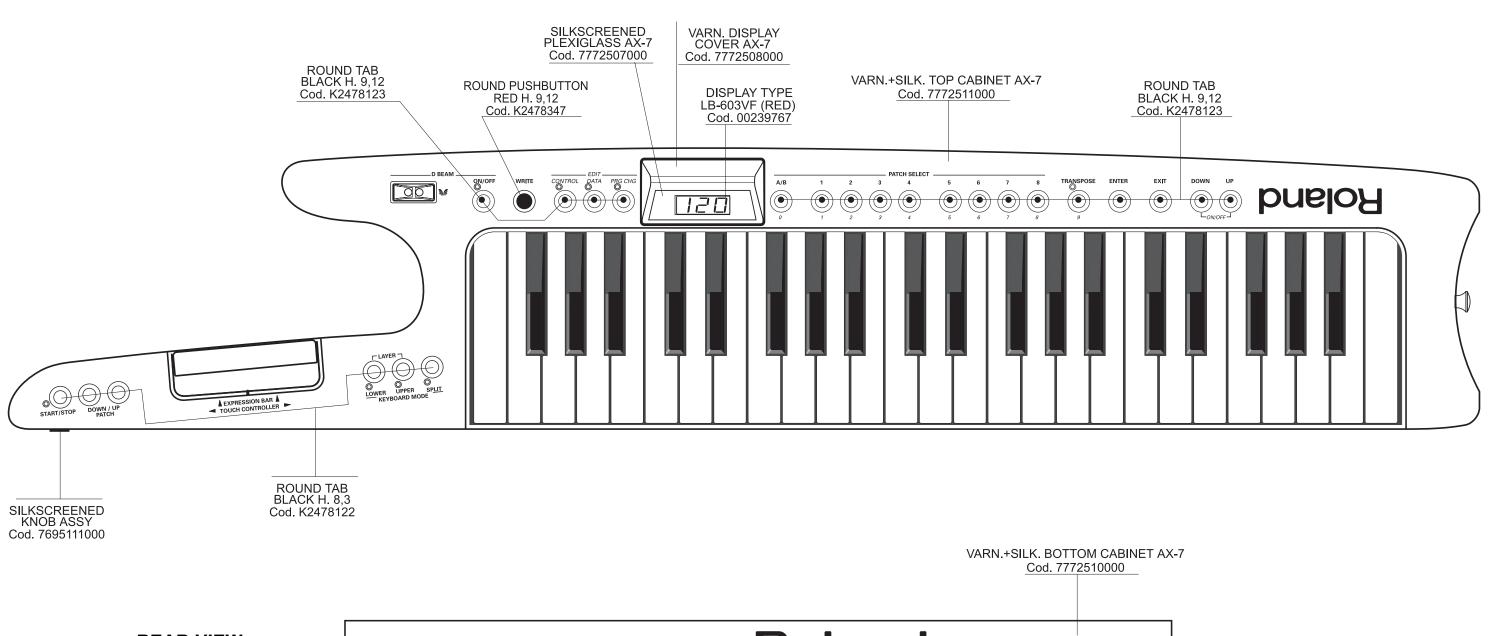




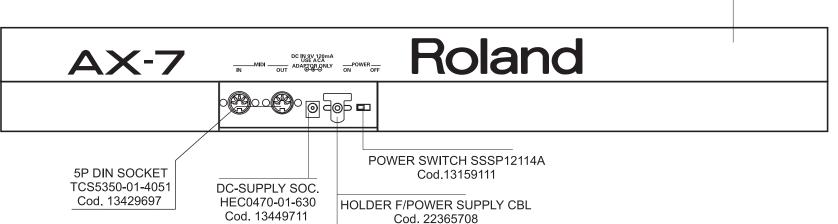
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LOCATION OF CONTROLS

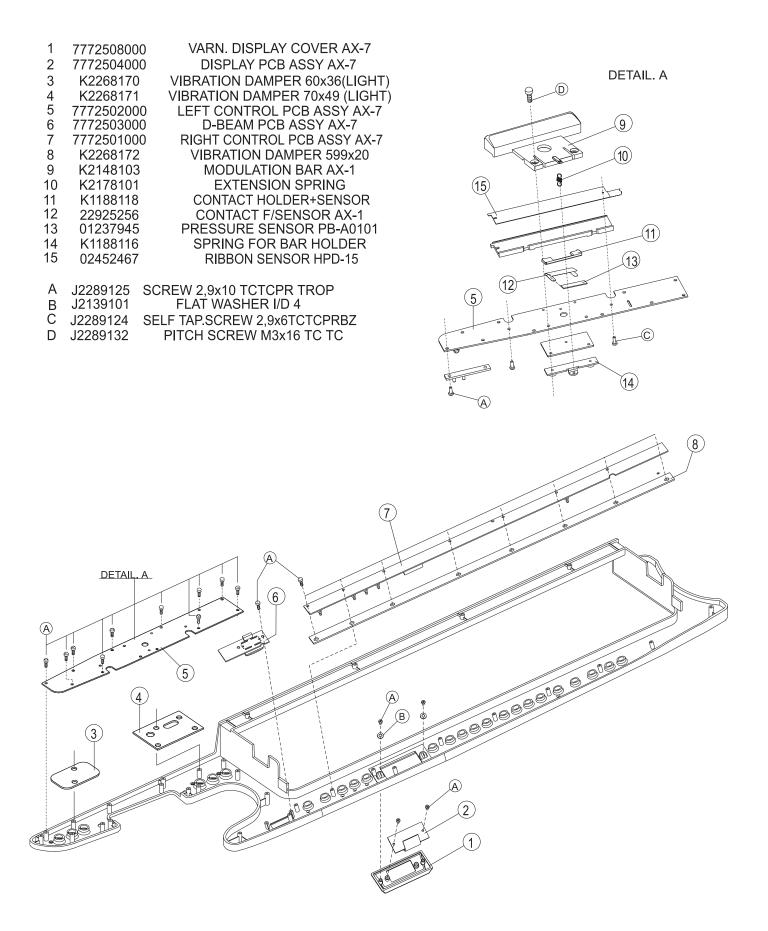


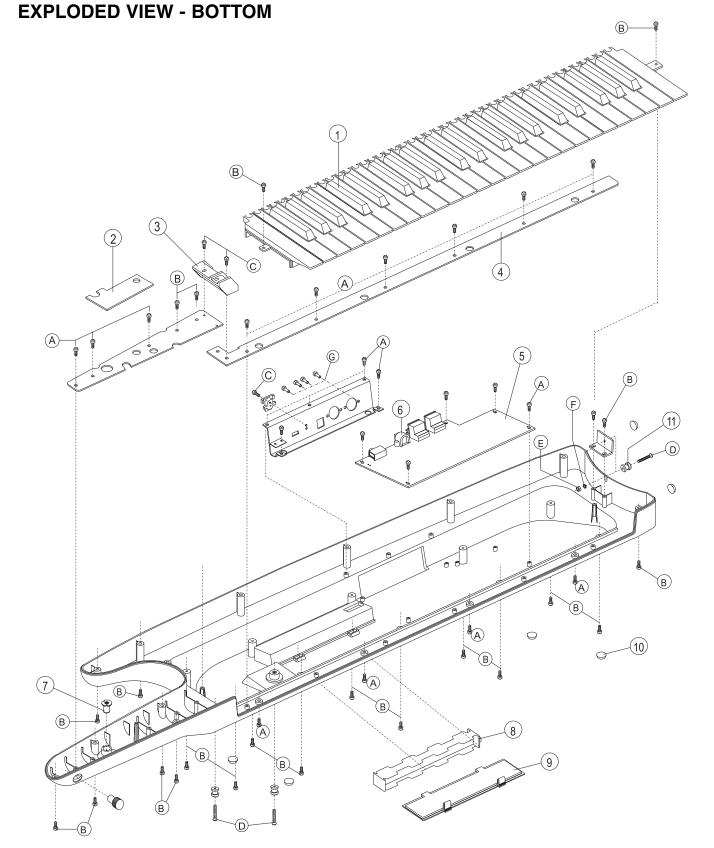




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EXPLODED VIEW - TOP





7695105000 K2268173 3 K118811901 K2128111 7772505000 13429823RI K2478348 J2209101 7772509000 10 J2359101

J2129101

11

KEYBOARD ASSY VIBRATION DAMPER 39x83 (LIGHT) EM-55 CHASSIS FOR STIFFENER STIFFENER FOR FRONT CPU PCB ASSY AX-7 P. SUPPLY PLUG LOCKING ROUND PUSHBUTTON (BLACK) H. 13,5 6-BATTERY HOLDER VARN. BATTERY COVER AX-1 SPACER 3M ART. Sj5012

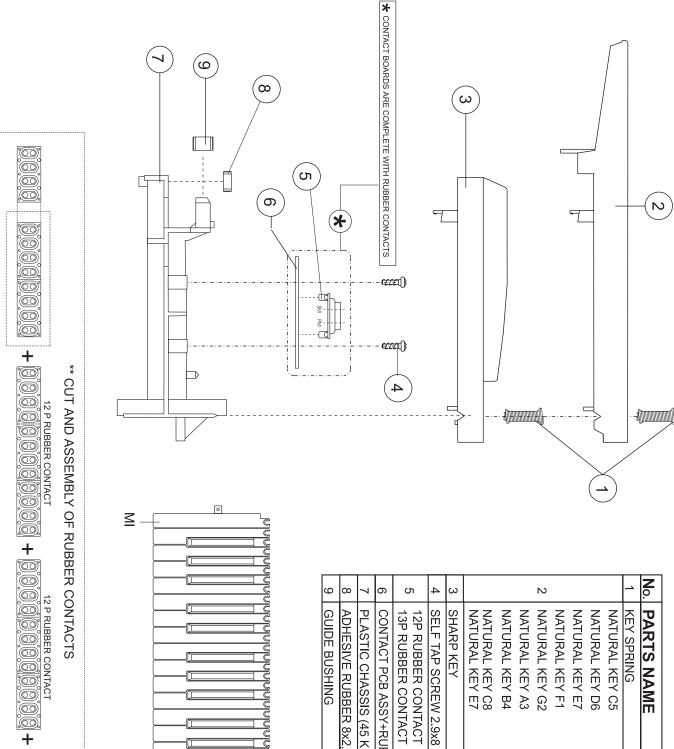
MALE LOCK FOR BELT AX-1

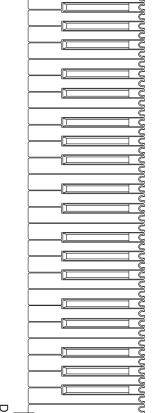
J2289125 С J2289102 D J2289134 Ε J2289113 F J2139102 G J2159102

В

J2289124 SELF TAP.SCREW 2,9x6TCTCPRBZ SCREW 2,9x10 TCTCPR TROP SELF TAP.SCREW 2,9x10 TCTC PITCH SCREW M3x17 TC TSC NUT 3MA H.3 TOOTHED WASHER I/D 3 PLASTIC RIVET Sr3055

KEYBOARD PARTS LIST 45 KEY KEYBOARD TP-7/BA Code: 7695105000





13 P RUBBER CONTACT

N _O	PARTS NAME		CODE RJA
_	KEY SPRING		22178226
	NATURAL KEY C5	DO	J2579123
	NATURAL KEY D6	RE	J2579124
	NATURAL KEY E7	≦	J2579125
	NATURAL KEY F1	FA	J2579126
2	NATURAL KEY G2	SOL	J2579127
	NATURAL KEY A3	LA	J2579128
	NATURAL KEY B4	<u>S</u>	J2579129
	NATURAL KEY C8	DO (fin)	J2579130
	NATURAL KEY E7	MI (iniz)	J2579131
3	SHARP KEY		22578318
4	SELF TAP SCREW 2.9x8 TCTCPRBZ	TCTCPRBZ	J2289126
П	12P RUBBER CONTACT		2218523802
Ö	13P RUBBER CONTACT		2218523902
6	CONTACT PCB ASSY+RUBBER CONTACT	BBER CONTACT	7695104000
7	PLASTIC CHASSIS (45 KEYS)	EYS)	J2819101
ω	ADHESIVE RUBBER 8x2,5x636 MM	,5x636 MM	J2599127
9	GUIDE BUSHING		22158789

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PARTS LIST AX-7

SAFETY PRECAUTIONS:

The parts marked extstyle extstylsafety-related characteristics.
Use only listed parts for replacement.

CONSIDERATION ON PARTS ORDERING

When ordering any parts listed in the parts list, please specify the following items in the order sheet.

OTY PART NUMBER DESCRIPTION MODEL NUMBER

Ex. 10 22575241 Sharp Key C-20/50

The completely fill the above items with correct number and description will result in delayed or even undelivered replacement.

NOTE:

The parts marked "#" are new (Initial Parts).

The parts marked " A " are new (Initial Parts).for RES but already used by RJA

The parts marked $\hat{\Delta}$ have Safety - Related characteristics. Use only listed parts for replacement.

Note: Replacement should be made on a unit basis. No replacements available for individual parts. Replacement only be a unit.

RCB = Right Control Board

LCB = Left Control Board

CPU = CPU Board **CB** = Contact B.

CDB = D-Beam Board

CASIN	<u>u</u>				Q.
#	7772511000	VARN.+SILK. TOP CABINET A			
#	7772510000	VARN.+SILK. BOTTOM CABINE			
#	7772509000	VARN. BATTERY COVER AX-			
#	7772508000 7772507000	VARN. DISPLAY COVER AX-7 SILKSCREENED PLEXIGLASS			
		01211001122112311221100			
KNOB	BUTTON				
	K2478122 K2478123	ROUND TAB ROUND TAB	BLACK H.8.3 BLACK H. 9.12		
#	K2478123 K2478347	ROUND TAB ROUND PUSHBUTTON	RED H.9,12		
#	K2478348	ROUND PUSHBUTTON	BLACK) H.13,5		
	7695111000	SILKSCREENED KNOB ASSY	AX-1		
SWITC	Н				
	J3169105	SWITCH	TP-1101A / EVQ-PAE 05 R	on RCB / on LCB	
	13159111	POWER SWITCH	SSSP12114A	SW2 on CPU	
ACK,	SOCKET				
	13449711	DC-SUPPLY SOC.	HEC0470-01-630	JK2 on CPU	
	13429697	5P DIN SOCKET	TCS5350-01-4051	JK1,3 on CPU	
)ISPL/	AY UNIT	DIODI AV TVDE	L D 0001/E (DED)	DO4 DIODI AV D	
	00239767	DISPLAY TYPE	LB-603VF (RED)	DS1 on DISPLAY Board	
EYBC	DARD ASSY				
	7695105000	KEYBOARD ASSY AX1			
	7093103000				
		ails, refer to KEYBOARD PARTS L	IST (Page 4)		
CB A	NOTE: For deta		IST (Page 4)		
#	NOTE: For details SSY 7772501000	ails, refer to KEYBOARD PARTS L	AX-7		
#	NOTE: For details SSY 7772501000 7772502000	ails, refer to KEYBOARD PARTS L RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY	AX-7 AX-7		
# # #	NOTE: For details SSY 7772501000 7772502000 7772503000	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY	AX-7 AX-7 AX-7		
# # #	NOTE: For det SSY 7772501000 7772502000 7772503000 7772504000	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY DISPLAY PCB ASSY	AX-7 AX-7 AX-7 AX-7		
# # #	NOTE: For details SSY 7772501000 7772502000 7772503000	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY	AX-7 AX-7 AX-7 AX-7 AX-7		
# # # #	NOTE: For det SSY 7772501000 7772502000 7772503000 7772504000 7772505000	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY DISPLAY PCB ASSY CPU PCB ASSY	AX-7 AX-7 AX-7 AX-7 AX-7		
# # #	NOTE: For det SSY 7772501000 7772502000 7772503000 7772504000 7772505000	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY DISPLAY PCB ASSY CPU PCB ASSY	AX-7 AX-7 AX-7 AX-7 AX-7 ER AX1	IC1 on CPU	
# # # #	NOTE: For det. SSY 7772501000 7772502000 7772503000 7772504000 7772505000 7695104000 15229718RI 15169550RI	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY DISPLAY PCB ASSY CPU PCB ASSY CONTACT PCB ASSY + RUBBI I.C. 6N 137 I.C. 74 HC138	AX-7 AX-7 AX-7 AX-7 AX-7 ER AX1	IC21 on CPU	
# # # #	NOTE: For det. SSY 7772501000 7772502000 7772503000 7772504000 7772505000 7695104000 15229718RI 15169550RI 15249111	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY DISPLAY PCB ASSY CPU PCB ASSY CONTACT PCB ASSY + RUBBI I.C. 6N 137 I.C. 74 HC138 I.C. TC7WU04 F	AX-7 AX-7 AX-7 AX-7 AX-7 ER AX1	IC21 on CPU IC13 on CPU	
# # # #	NOTE: For det. SSY 7772501000 7772502000 7772503000 7772504000 7772505000 7695104000 15229718RI 15169550RI 15249111 J5259127	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY DISPLAY PCB ASSY CPU PCB ASSY CONTACT PCB ASSY + RUBBI I.C. 6N 137 I.C. 74 HC138 I.C. 74 HC 10	AX-7 AX-7 AX-7 AX-7 AX-7 AX-7 ER AX1 PHOTO-COUPLER DIP CMOS FLAT CMOS	IC21 on CPU IC13 on CPU IC16 on CPU	
# # # #	NOTE: For det SSY 7772501000 7772502000 7772503000 7772504000 7772505000 7695104000 15229718RI 15169550RI 15249111 J5259127 J5259113	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY DISPLAY PCB ASSY CPU PCB ASSY CONTACT PCB ASSY + RUBBI I.C. 6N 137 I.C. 74 HC138 I.C. TC7WU04 F I.C. 74 HC 10 I.C. 74 HC 390	AX-7 AX-7 AX-7 AX-7 AX-7 AX-7 ER AX1 PHOTO-COUPLER DIP CMOS FLAT CMOS FLAT CMOS	IC21 on CPU IC13 on CPU IC16 on CPU IC14 on CPU	
# # # #	NOTE: For det. SSY 7772501000 7772502000 7772503000 7772504000 7772505000 7695104000 15229718RI 15169550RI 15249111 J5259127 J5259113 J5259128	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY DISPLAY PCB ASSY CPU PCB ASSY CONTACT PCB ASSY + RUBBI I.C. 6N 137 I.C. 74 HC138 I.C. TC7WU04 F I.C. 74 HC 10 I.C. 74 HC 390 I.C. 74 HC 393	AX-7 AX-7 AX-7 AX-7 AX-7 AX-7 ER AX1 PHOTO-COUPLER DIP CMOS FLAT CMOS	IC21 on CPU IC13 on CPU IC16 on CPU IC14 on CPU IC17 on CPU	
# # # #	NOTE: For det. SSY 7772501000 7772502000 7772503000 7772504000 7772505000 7695104000 15229718RI 15169550RI 15249111 J5259127 J5259113 J5259128 15259821	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY DISPLAY PCB ASSY CPU PCB ASSY CONTACT PCB ASSY + RUBBI I.C. 6N 137 I.C. 74 HC138 I.C. TC7WU04 F I.C. 74 HC 10 I.C. 74 HC 390 I.C. 74 HC 393 I.C. TC74HC573AF	AX-7 AX-7 AX-7 AX-7 AX-7 AX-7 ER AX1 PHOTO-COUPLER DIP CMOS FLAT CMOS FLAT CMOS FLAT CMOS FLAT	IC21 on CPU IC13 on CPU IC16 on CPU IC14 on CPU IC17 on CPU IC10 on CPU	
# # # #	NOTE: For det. SSY 7772501000 7772502000 7772503000 7772504000 7772505000 7695104000 15229718RI 15169550RI 15249111 J5259127 J5259113 J5259128 15259821 00129278	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY DISPLAY PCB ASSY CPU PCB ASSY CONTACT PCB ASSY + RUBBI I.C. 6N 137 I.C. 74 HC138 I.C. TC7WU04 F I.C. 74 HC 10 I.C. 74 HC 390 I.C. 74 HC 390 I.C. 74 HC 393 I.C. TC74HC573AF I.C. SSC1080 FOB	AX-7 AX-7 AX-7 AX-7 AX-7 AX-7 ER AX1 PHOTO-COUPLER DIP CMOS FLAT CMOS FLAT CMOS FLAT (CUSTOM IC)	IC21 on CPU IC13 on CPU IC16 on CPU IC14 on CPU IC17 on CPU IC10 on CPU IC110 on CPU	
# # # #	NOTE: For det. SSY 7772501000 7772502000 7772503000 7772504000 7772505000 7695104000 15229718RI 15169550RI 15249111 J5259127 J5259113 J5259128 15259821	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY DISPLAY PCB ASSY CPU PCB ASSY CONTACT PCB ASSY + RUBBI I.C. 6N 137 I.C. 74 HC138 I.C. TC7WU04 F I.C. 74 HC 10 I.C. 74 HC 390 I.C. 74 HC 393 I.C. TC74HC573AF I.C. SSC1080 FOB I.C. AT24C64N-10SC 64K	AX-7 AX-7 AX-7 AX-7 AX-7 AX-7 ER AX1 PHOTO-COUPLER DIP CMOS FLAT CMOS FLAT CMOS FLAT (CUSTOM IC) EEPROM	IC21 on CPU IC13 on CPU IC16 on CPU IC14 on CPU IC17 on CPU IC10 on CPU IC10 on CPU IC11 on CPU IC11 on CPU IC10 on CPU	
# # # #	NOTE: For det. SSY 7772501000 7772502000 7772503000 7772504000 7772505000 7695104000 15229718RI 15169550RI 15249111 J5259127 J5259113 J5259128 15259821 00129278 J5259153	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY DISPLAY PCB ASSY CPU PCB ASSY CONTACT PCB ASSY + RUBBI I.C. 6N 137 I.C. 74 HC138 I.C. TC7WU04 F I.C. 74 HC 10 I.C. 74 HC 390 I.C. 74 HC 390 I.C. 74 HC 393 I.C. TC74HC573AF I.C. SSC1080 FOB	AX-7 AX-7 AX-7 AX-7 AX-7 AX-7 ER AX1 PHOTO-COUPLER DIP CMOS FLAT CMOS FLAT CMOS FLAT (CUSTOM IC)	IC21 on CPU IC13 on CPU IC16 on CPU IC14 on CPU IC17 on CPU IC10 on CPU IC11 on CPU IC11 on CPU IC6 on CPU IC6 on CPU IC9 on CPU	
# # # #	NOTE: For det. SSY 7772501000 7772502000 7772503000 7772504000 7772505000 7695104000 15229718RI 15169550RI 15249111 J5259127 J5259113 J5259128 15259821 00129278 J5259153 15259884	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY DISPLAY PCB ASSY CPU PCB ASSY CONTACT PCB ASSY + RUBBI I.C. 74 HC138 I.C. 74 HC 10 I.C. 74 HC 393 I.C. 74 HC 393 I.C. TC74HC573AF I.C. SSC1080 FOB I.C. AT24C64N-10SC 64K I.C. TC7S08F MOS	AX-7 AX-7 AX-7 AX-7 AX-7 AX-7 ER AX1 PHOTO-COUPLER DIP CMOS FLAT CMOS	IC21 on CPU IC13 on CPU IC16 on CPU IC14 on CPU IC17 on CPU IC10 on CPU IC10 on CPU IC11 on CPU IC11 on CPU IC10 on CPU	
# # # #	NOTE: For det. SSY 7772501000 7772502000 7772503000 7772504000 7772505000 7695104000 15229718RI 15169550RI 15249111 J5259127 J5259113 J5259128 15259821 00129278 J5259153 15259884 15249104	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY DISPLAY PCB ASSY CPU PCB ASSY CONTACT PCB ASSY + RUBBI I.C. 6N 137 I.C. 74 HC138 I.C. TC7WU04 F I.C. 74 HC 10 I.C. 74 HC 390 I.C. 74 HC 393 I.C. TC74HC573AF I.C. SSC1080 FOB I.C. AT24C64N-10SC 64K I.C. TC7S08F MOS I.C. TC7504F I.C. TC7504F I.C. M51953 AL	AX-7 AX-7 AX-7 AX-7 AX-7 AX-7 ER AX1 PHOTO-COUPLER DIP CMOS FLAT CMOS FLAT CMOS FLAT CMOS FLAT (CUSTOM IC) EEPROM CMOS FLAT FLAT (STANDING)	IC21 on CPU IC13 on CPU IC16 on CPU IC14 on CPU IC17 on CPU IC17 on CPU IC10 on CPU IC6 on CPU IC9 on CPU IC9 on CPU IC7 on CPU IC7 on CPU IC8 on CPU IC8 on CPU IC8 on CPU	
# # # #	NOTE: For det. SSY 7772501000 7772502000 7772503000 7772504000 7772505000 7695104000 15229718RI 15169550RI 15249111 J5259127 J5259113 J5259128 15259821 00129278 J5259153 15259884 15249104 J5259149 15219183 15149146	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY DISPLAY PCB ASSY CPU PCB ASSY CONTACT PCB ASSY + RUBBI I.C. 6N 137 I.C. 74 HC138 I.C. TC7WU04 F I.C. 74 HC 10 I.C. 74 HC 390 I.C. 74 HC 393 I.C. TC74HC573AF I.C. SSC1080 FOB I.C. AT24C64N-10SC 64K I.C. TC7S04F I.C. TC7S04F I.C. TC7504F I.C. TC74VHC541FT I.C. M51953 AL I.C. TD62583AP	AX-7 AX-7 AX-7 AX-7 AX-7 AX-7 ER AX1 PHOTO-COUPLER DIP CMOS FLAT CMOS FLAT CMOS FLAT CMOS FLAT (CUSTOM IC) EEPROM CMOS FLAT (STANDING) (INTERF.DRIVER IC)	IC21 on CPU IC13 on CPU IC16 on CPU IC14 on CPU IC17 on CPU IC17 on CPU IC10 on CPU IC10 on CPU IC6 on CPU IC9 on CPU IC12 on CPU IC12 on CPU IC7 on CPU IC7 on CPU IC8 on CPU	
# # # #	NOTE: For det. SSY 7772501000 7772502000 7772503000 7772504000 7772505000 7695104000 15229718RI 15169550RI 15249111 J5259127 J5259113 J5259128 15259821 00129278 J5259153 15259884 15249104 J5259149 15219183 15149146 15289105	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY DISPLAY PCB ASSY CPU PCB ASSY CONTACT PCB ASSY + RUBBI I.C. 74 HC138 I.C. 74 HC 10 I.C. 74 HC 393 I.C. TC7WU04 F I.C. 74 HC 393 I.C. TC74HC573AF I.C. SSC1080 FOB I.C. AT24C64N-10SC 64K I.C. TC7S08F MOS I.C. TC7504F I.C. TC75V4HC541FT I.C. M51953 AL I.C. TD62583AP I.C. UPC 4570G	AX-7 AX-7 AX-7 AX-7 AX-7 AX-7 ER AX1 PHOTO-COUPLER DIP CMOS FLAT CMOS FLAT CMOS FLAT CMOS FLAT (CUSTOM IC) EEPROM CMOS FLAT FLAT (STANDING) (INTERF.DRIVER IC) (OP AMP)	IC21 on CPU IC13 on CPU IC16 on CPU IC14 on CPU IC17 on CPU IC17 on CPU IC10 on CPU IC10 on CPU IC6 on CPU IC9 on CPU IC12 on CPU IC7 on CPU IC7 on CPU IC8 on CPU IC8 on CPU IC7 on CPU IC8 on CPU IC9 on CPU IC7 on CPU IC8 on CPU IC20 on CPU IC20 on CPU	
# # # #	NOTE: For deta SSY 7772501000 7772502000 7772503000 7772504000 7772505000 7695104000 15229718RI 15169550RI 15249111 J5259127 J5259113 J5259128 15259821 00129278 J5259153 15259884 15249104 J5259149 15219183 15149146 15289105 15189189	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY DISPLAY PCB ASSY CPU PCB ASSY CONTACT PCB ASSY + RUBBI I.C. 74 HC138 I.C. 74 HC 10 I.C. 74 HC 390 I.C. 74 HC 393 I.C. TC74HC573AF I.C. SSC1080 FOB I.C. AT24C64N-10SC 64K I.C. TC7S08F MOS I.C. TC7504F I.C. TC7504F I.C. M51953 AL I.C. TD62583AP I.C. UPC 4570G I.C. UPC 4570HA VERT.	AX-7 AX-7 AX-7 AX-7 AX-7 AX-7 ER AX1 PHOTO-COUPLER DIP CMOS FLAT CMOS FLAT CMOS FLAT CMOS FLAT (CUSTOM IC) EEPROM CMOS FLAT (STANDING) (INTERF.DRIVER IC)	IC21 on CPU IC13 on CPU IC16 on CPU IC14 on CPU IC17 on CPU IC17 on CPU IC10 on CPU IC10 on CPU IC6 on CPU IC9 on CPU IC9 on CPU IC7 on CPU IC7 on CPU IC7 on CPU IC8 on CPU IC8 on CPU IC10 on CPU IC10 on CPU IC10 on CPU IC10 on CPU IC21 on CPU IC21 on CPU IC21 on CPU IC10 on CPU	
# # # #	NOTE: For det. SSY 7772501000 7772502000 7772503000 7772504000 7772505000 7695104000 15229718RI 15169550RI 15249111 J5259127 J5259113 J5259128 15259821 00129278 J5259153 15259884 15249104 J5259149 15219183 15149146 15289105	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY DISPLAY PCB ASSY CPU PCB ASSY CONTACT PCB ASSY + RUBBI I.C. 74 HC138 I.C. 74 HC 10 I.C. 74 HC 393 I.C. TC7WU04 F I.C. 74 HC 393 I.C. TC74HC573AF I.C. SSC1080 FOB I.C. AT24C64N-10SC 64K I.C. TC7S08F MOS I.C. TC7504F I.C. TC75V4HC541FT I.C. M51953 AL I.C. TD62583AP I.C. UPC 4570G	AX-7 AX-7 AX-7 AX-7 AX-7 AX-7 AX-7 ER AX1 PHOTO-COUPLER DIP CMOS FLAT CMOS FLAT CMOS FLAT CMOS FLAT CMOS FLAT (CUSTOM IC) EEPROM CMOS FLAT FLAT (STANDING) (INTERF.DRIVER IC) (OP AMP) (OP.AMP.)	IC21 on CPU IC13 on CPU IC16 on CPU IC14 on CPU IC17 on CPU IC17 on CPU IC10 on CPU IC10 on CPU IC6 on CPU IC9 on CPU IC12 on CPU IC7 on CPU IC7 on CPU IC8 on CPU IC8 on CPU IC7 on CPU IC8 on CPU IC9 on CPU IC7 on CPU IC8 on CPU IC20 on CPU IC20 on CPU	
######################################	NOTE: For det. SSY 7772501000 7772502000 7772503000 7772504000 7772505000 7695104000 15229718RI 15169550RI 15249111 J5259127 J5259113 J5259128 15259121 00129278 J5259153 15259884 15249104 J5259149 15219183 15149146 15289105 15189189 15289141 7772506000	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY DISPLAY PCB ASSY CPU PCB ASSY CONTACT PCB ASSY + RUBBI I.C. 6N 137 I.C. 74 HC138 I.C. TC7WU04 F I.C. 74 HC 10 I.C. 74 HC 390 I.C. 74 HC 393 I.C. TC74HC573AF I.C. SSC1080 FOB I.C. AT24C64N-10SC 64K I.C. TC7S08F MOS I.C. TC7S04F I.C. TC7S04F I.C. TC74VHC541FT I.C. M51953 AL I.C. TD62583AP I.C. UPC 4570G I.C. UPC 4570HA VERT. I.C. M5223FP-600D	AX-7 AX-7 AX-7 AX-7 AX-7 AX-7 AX-7 ER AX1 PHOTO-COUPLER DIP CMOS FLAT CMOS FLAT CMOS FLAT CMOS FLAT CMOS FLAT (CUSTOM IC) EEPROM CMOS FLAT FLAT (STANDING) (INTERF.DRIVER IC) (OP AMP) (OP.AMP.)	IC21 on CPU IC13 on CPU IC16 on CPU IC14 on CPU IC17 on CPU IC17 on CPU IC11 on CPU IC6 on CPU IC9 on CPU IC9 on CPU IC7 on CPU IC7 on CPU IC8 on CPU IC8 on CPU IC8 on CPU IC8 on CPU IC102 on CPU IC20 on CPU IC21 on CPU IC22 on CPU IC22 on CPU IC30 on CPU IC40 on CPU IC50 on CPU	
######################################	NOTE: For det. SSY 7772501000 7772502000 7772503000 7772504000 7772504000 7695104000 15229718RI 15169550RI 15169550RI 15249111 J5259127 J5259113 J5259128 15259821 00129278 J5259153 15259821 00129278 J5259149 15219183 15149146 15289105 15189189 15289141 77725060000 SISTOR	RIGHT CONTROL PCB ASSY LEFT CONTROL PCB ASSY LEFT CONTROL PCB ASSY D-BEAM PCB ASSY DISPLAY PCB ASSY CPU PCB ASSY CONTACT PCB ASSY + RUBBI I.C. 6N 137 I.C. 74 HC138 I.C. TC7WU04 F I.C. 74 HC 10 I.C. 74 HC 390 I.C. 74 HC 393 I.C. TC74HC573AF I.C. SSC1080 FOB I.C. AT24C64N-10SC 64K I.C. TC7S08F MOS I.C. TC7S04F I.C. TC7S04F I.C. TC7504F I.C. TC750553AP I.C. UPC 4570G I.C. UPC 4570HA VERT. I.C. M5223FP-600D I.C. MICRO IC2 CPU A-37/A	AX-7 AX-7 AX-7 AX-7 AX-7 AX-7 AX-7 ER AX1 PHOTO-COUPLER DIP CMOS FLAT CMOS FLAT CMOS FLAT CMOS FLAT (CUSTOM IC) EEPROM CMOS FLAT FLAT (STANDING) (INTERF.DRIVER IC) (OP AMP) (OP.AMP.) X-7	IC21 on CPU IC13 on CPU IC16 on CPU IC16 on CPU IC17 on CPU IC17 on CPU IC10 on CPU IC6 on CPU IC9 on CPU IC9 on CPU IC7 on CPU IC7 on CPU IC8 on CPU IC8 on CPU IC8 on CPU IC20 on CPU IC30 on CPU IC40 on CPU IC50 on CPU IC50 on CPU IC50 on CPU IC50 on CPU IC61 on CPU IC62 on CPU	
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	15129427 15329516 15119163 15329104 J5119105	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		2SC-2235Y DTC-114EK RN2227 2SK-368GR TN6717A	FET CHIP	Q8 on CPU Q2 on CPU Q9,10,11,12,13 on CPU Q5 on CPU Q3,4 on CPU	1 1 5 1 2
DIODE							
	15019159RI 15339105 15339108 00893912 15339109 J5029107 01341623 01342578 15019345RI J5019106 J5019116	DIODE DIODE DIODE DIODE DIODE LED DIODE DIODE LED PHOTO DIODE ZENER DIODE ZENER DIODE DIODE TRANSIL		1N-4148 DAN-202K DA-204K SFPB-56 DAP 202K 3 SLR-37VR3F - RED TLN 201 TPS 708 BZX79C 5.6V BZX55C 5,1V BZW04-5V8B	CHIP CHIP	on LCB / on CDB / on RCB / on CB D9,10 on CPU D1,2,7,12,13 on CPU D8,5 on CPU D1,2,3,4,5 on RCB / D1,2,3,4 on LCB D1 on CDB D2 on CDB D4 on CPU D6,11 on CPU D10 on LCB	102 2 5 1 2 9 1 1 1 2
RESISTO	OR .						
	J3919104 J3919108 13819131RI J3809129 J3809135	RESISTOR ARRAY RESISTOR ARRAY UNINFL.RES. UNINFL. RES. UNINFL.RES.		EXB-A10E-103-J EXB-V8V-103-JV 10 OHM 0.6W 5% 220 OHM 0.6W 5% 330 OHM 0.6W 5%		RA1,3,4,5,6 on CPU RA2 on CPU R65 on CPU R34 on CPU R77,81,82,83,84,85,86,87 on CPU	5 1 1 1 8
POTENT	IOMETER						
	13289217 13299206	ROT. POT. TRIMMER POT.		100KB 09L1120 EVND 8AA03B24		VR1 on LCB VR1 on CPU	1 1
CAPACI	TOR						
	J5369103 J5369104 J5369105 J5369102 J5369106 J3629143 J3629142	ELECTR. COND. RV2 ELECTR. COND. RV2 ELECTR. COND. RV3 ELECTR. COND. RV2 ELECTR. COND. RV2 ELECTR. COND. ELECTR. COND.		100U 16V (SMD) 10U 16V (SMD) 33U 16V (SMD) 47U 16V (SMD) 1U 50V (SMD) 10U 16V H.7 1U 63V H.7		C64,37 on CPU C2,11,15,41,81,83,85,86,87,89,94,95 on CPU C91 on CPU C42,65,66 on CPU C12,70 on CPU C3,5 on CDB C1 on LCB	2 12 1 3 2 2 1
INDUCTO	OR, COIL, FILT	ER					
< <emi>></emi>	12449382RI 12449370 12449326 J2399104	NOISE SUP. NOISE SUP. NOISE SUP. CHIP NOISE SUP.		PLT1-R53C SBT-0160W SBT-0460 EXCCL4532U1		L4 on CPU L1,2 on CPU L3 on CPU L5,6,7,8 on CPU	1 2 1 4
CRYSTA	L, RESONATO	R					
	00894034 01124812	X-TAL QUARTZ		16 MHZ MA-406 10 MHZ MA-406		X1 on CPU X2 on CPU	1 1
CONNEC	CTOR						
#	13419677RI J3429114 J3429122 J3429123 J3429127 J3439125	16P FEM. CONNECTOR 22P FEM. CONN. 14P FEM. CONNECTOR 8P FEM. CONNECTOR 28V FEMALE CONN. 5P MALE CONNECTOR		AMP 1.27 C/1.25 - H. AMP 1.27 IL-404-08S-LW 1,25 90° FE-ST-VK-N P.2 M		CN2,4 on CPU / on RC / on LC CN3 on LCB / CN9 on CPU CN1 on RCB CN1 on LCB CN3 on RCB / CN6 on CPU CN2 on RCB / CN1 on CDB	4 2 1 1 2 2
WIRING,	CABLE						
#	K3468260 K3468261 2348854501 7695108001 7770306000	22P MYLAR CABLE 28P MYLAR CABLE 16P FLAT CABLE 16P FLAT CABLE 5P CABLE	(16)	1,25 1,25 -2C -2C -2C P.2 D/R VA-5		From CN9 on CPU to CN3 on LCB From CN6 on CPU to CN3 on RCB From CN4 on CPU to CN2 on CB From CN2 on CPU to CN1 on CB From CN1 on CDB to CN2 on RCB	1 1 1
BATTER	Υ						
	J2569102	2-BATTERY SET 'AA'-SIZE	E (ALI	۲.)			3
SCREW							
	J2289122 J2289102 J2289124 J2289125 J2289132 J2289134	SCREW SELF TAP. SCREW SELF TAP. SCREW SCREW PITCH SCREW PITCH SCREW		2.2X6 TC TC BRUN 2.9X10 TC TC 2.9X 6 TCTCPRBZ 2.9X10 TC TC PR TRO M3X16 TC TC M3X17 TC TSC	P		2 6 27 50 2 3
PACKING		DOLVOT LOWER COSE C	0) (==	,			
#	K2638127 K2638265 K2678102 K2618264	POLYST. LOWER SIDE COUPPER POLYST. SIDE POLYETH. ENVELOPE 25 OUTER CARTON		AX-7			1 1 2 1

MISCE	ELLANEOUS		
	J2289113	NUT 3MA H.3	5
	J2139101	FLAT WASHER I/D 4	2
	J2139111 J2139102	FLAT WASHER I/D 3X7 TH. 0.6 TOOTHED WASHER I/D 3	4
	K2168105	SPACER F/LED H.12 HEX.	5 5
	K2168105 K2168107	SPACER F/LED H.12 HEX.	4
	00453223	LED SPACER H. 7 E.D. 5	2
	J2359101	SPACER 3M ART. SJ5012	6
	J2159102	PLASTIC RIVET SR3055	4
	J2209101	6-BATTERY HOLDER	1
	22925256	CONTACT F/SENSOR AX-1	1
#	01237945	PRESSURE SENSOR PB-A0101	1
#	K2268170	VIBRATION DAMPER 60X36 (LIGHT) AX-7	i 1
#	K2268171	VIBRATION DAMPER 70X49 (LIGHT) AX-7	1
#	K2268172	VIBRATION DAMPER 599X20 (LIGHT) AX-7	1
#	K2268173	VIBRATION DAMPER 39X83 (LIGHT) AX-7	1
	02452467	RIBBON SENSOR HPD-15	1
	13419723RI	9V BATTERY CONNECTION	1
	J2129102	FEMALE LOCK FOR BELT AX1	1
	K2178101	EXTENSION SPRING	1
	22365708	HOLDER F/POWER SUPPLY CBL	1
	K2148103	MODULATION BAR AX-1	1
	K1188118	CONTACT HOLDER + SENSOR	1
	01343089	D-BEAM CONTROLLER ESCT BLK	1
	13429823RI	P. SUPPLY PLUG LOCKING	1
ACCE	SSORIES		
	J2319101	BLACK BELT - 1.6 M	
	J3439116	MIDI CBL - BLACK - 5 M.	1
	K6018109	MIDI GUIDE	1
#	K6018456	OWNER'S MANUAL E/D/F/SP/IT/OL AX-7	1

TEST MODE

ITEMS REQUIRED:

· MIDI cable;

HOW TO VISUALIZE THE SYSTEM PROGRAM VERSION

Turn the instrument on, while keeping pressed the button 2 of section PATCH. After a few seconds, the display will visualize a writing identifying the software version: i.e.: VER 100 - 04 oct 2001

To exit, turn the instrument off.

HOW TO CARRY OUT THE FACTORY SETUP

Turn the instrument on while keeping the button WRITE pressed. After a few seconds, the display will visualize the writing Factory setup.

The Factory Setup function re-establishes the instrument's factory settings.

HOW TO ENTER TEST MODE

Turn the instrument on while keeping pressed the button 1 of section PATCH.

After a few seconds, the display will visualize the following writing: TEST ROLAND AX-7 VERSION 1.00

Then the display visualizes:



Every button of section Patch corresponds to a test to carry out.

Button 1 \Rightarrow Panel check ("F": Front, "R": Rear);

Button 2 \Rightarrow Keyboard check
Button 3 \Rightarrow Memory check

Turn the instrument off to exit test mode.

Note: After carrying out the tests, the instrument automatically performs the Factory Setup.

1) PANEL CHECK (FRONT / REAR)

Once entered test mode, press button 1. The display visualizes:



If you press button 1, you check the Front Control Panel.

If you press button 2, you check the Rear Control panel (MIDI, D-Beam, HOLD and Battery).

Press EXIT to come back to the previous menu.

AX-7 Nov, 2001

a) Front Panel check (Controls)

Once you have entered the control panel check, press button 1:

The display visualizes:



If you press the button 1, you check the buttons.

If you press the button 2, you check the **LEDs**.

If you press the button 3, you check the **Controls (Expression bar, Touch controller, Data entry).**

Buttons check

Once you have entered the front panel test mode, press button 1.

В

The display visualizes pict. A:





If you press the buttons of the control panel one after the other, the display will visualize their name. When you release the button, the display will visualize: OFF (See pict. B).

Press EXIT and WRITE at the same time to exit.

The test procedure automatically goes back to the previous menu.

Note: It is not possible to go on to the following step if this test is not carried out correctly. If you exit the test before checking all the buttons, the display indicates the name of the untested buttons.

Press EXIT to go back to the main menu.

LED check

Once you have entered the control panel check, press button 2.

The control panel LEDs and the display segments will light in sequence.

Press EXIT to leave this test.

Press EXIT again to go back to the main menu.

Control check (Expression bar, Touch controller, Data entry).

Once you have entered the control panel check, press button 3. The display visualizes:



Pressing the button 1, you check the **Expression bar**.

Pressing the button 2, you check the **Touch controller**.

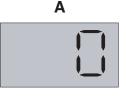
Pressing the button 3, you check the **Data entry** potentiometer.

Expression bar

Once you have pressed the button 1, the display visualizes:

Pict. A (value 0) if the Expression bar is released;

Pict. B (value 127) if the Expression bar is completely pressed.





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Press EXIT to leave.

Press EXIT again to go back to the main menu.

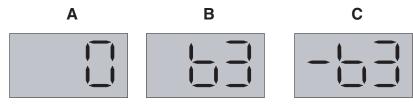
Touch controller

Once you have pressed button 2, the display visualizes:

Pict. A (Value 0), if you don't touch the touch controller or if you touch it in the middle (please see the reference sign on the touch controller);

Pict. B (Value 63), if you press the touch controller from the middle rightwards;

Pict. C (Value - 63), if you press the touch controller from the middle leftwards.



Press EXIT to leave.

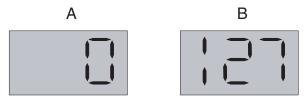
Press EXIT again to go back to the main menu.

Data entry

Once you have pressed button 3, the display visualizes:

Pict. A (value 0) if the potentiometer slider is in low position;

Pict. B (value 127) if the potentiometer slider is in high position.



Press EXIT to leave.

Press EXIT again to go back to the main menu.

b) Rear panel (HOLD, D-Beam, Battery, MIDI)

Once you have entered the rear panel test mode rear panel, press button 2. The display visualizes:



Press button 1, to check HOLD switch and D-Beam.

Press button 2, to check the **Power battery**.

Press button 3, to check the MIDI.

HOLD switch and D-Beam check

Once you have entered the rear panel test mode, press button 1.

The display visualizes:

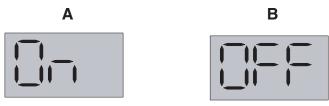


Press button 1, to check the HOLD switch.

Press button 2, to check the D-Beam.

HOLD switch

If you press the HOLD switch, the display visualzes the status ON (Pict. A); when you release the HOLD switch, the display visualizes its new status OFF (Pict. B).

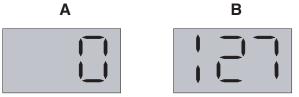


Press EXIT to leave.

Press EXIT again to go back to the main menu.

D-Beam

Make sure that the value of the D-Beam controller ranges from 0 (Pict. A) to 127 (Pict. B) depending on the vertical distance of your hand from the infrared LEDs of the D-Beam. When standing still, the value shown must be 0.



Press EXIT to leave.

Press EXIT again to go back to the main menu.

Power Battery check

Once you have entered the rear panel test mode, press button 2.

The display visualizes a value representing the power battery charge level, expressed in % value (i.e.: 100 = 100 %).



Press EXIT to leave.

Press EXIT again to go back to the main menu.

Midi check

Once you have entered in the rear panel test mode, press button 3. The display visualizes:



Connect MIDI IN and MIDI OUTsockets by a Midi cable.

In case of correct data transmission and reception, the display visualizes the writing "go". In case of failure, the display visualizes "0 - 1".

Press EXIT to leave.

Press EXIT again to go back to the main menu.

AX-7 Nov, 2001

2) KEYBOARD CHECK

Once you have entered test mode, press the button 2: The display visualizes:



Connect the Midi outputs (OUT) to the Midi in of another musical instrument or of a dedicated equipment, provided of a sound source.

Press the keyboard keys. When the keys are released, the display visualizes OFF.

When you press a key, you hear a Piano sound and the display visualizes the velocity level (from 0 to 127).







Released key

Pressed key

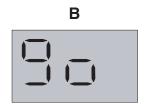
Press EXIT to leave.

Press EXIT again to go back to the main menu.

3) MEMORY CHECK

Once you have entered in test mode, press button 3. The display visualizes:





The instrument carries out the DEVICE CHECK (Pict. A) automatically.

Caution: Don't turn the power off during this test. If the power goes off accidentally, carry out the test again.

At the end of all the tests, make sure the display visualizes the writing "go" (Pict. B). This means that the instrument memory has been implemented correctly. In case the display visualizes the writing "Err", it means that the memory is damaged.

Press EXIT to leave.

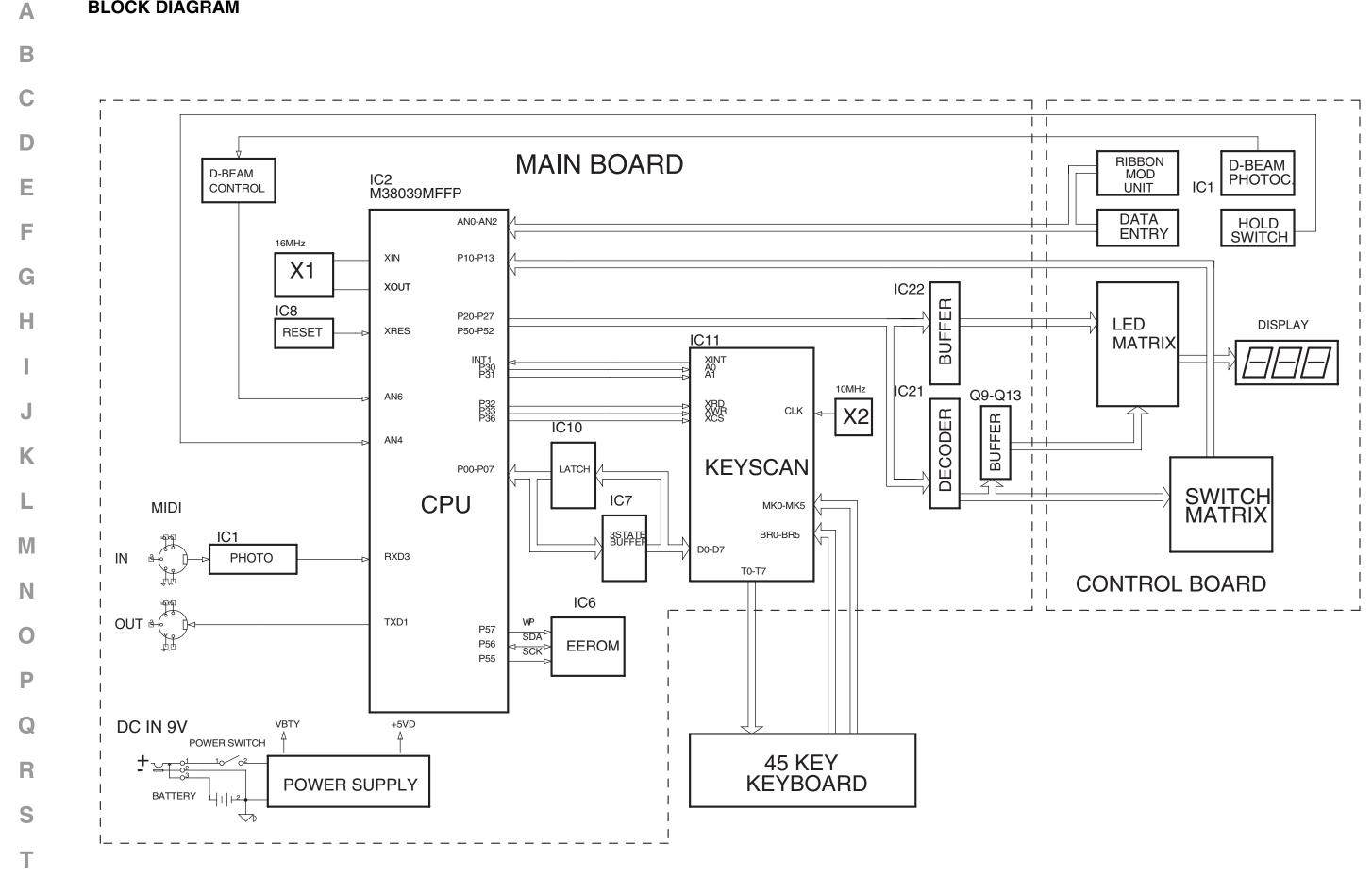
To exit, turn the power off.

Note 1: When you turn the power on again, the Factory Setup is carried out automatically.

Note 2: If you press EXIT when the display visualizes the main menu, you enter test mode again.

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BLOCK DIAGRAM



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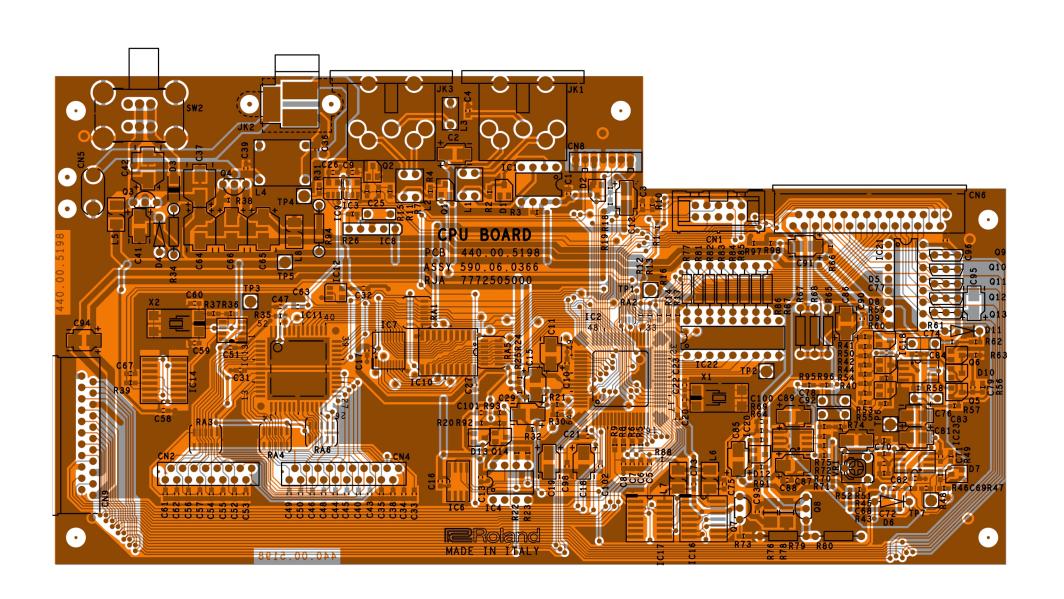
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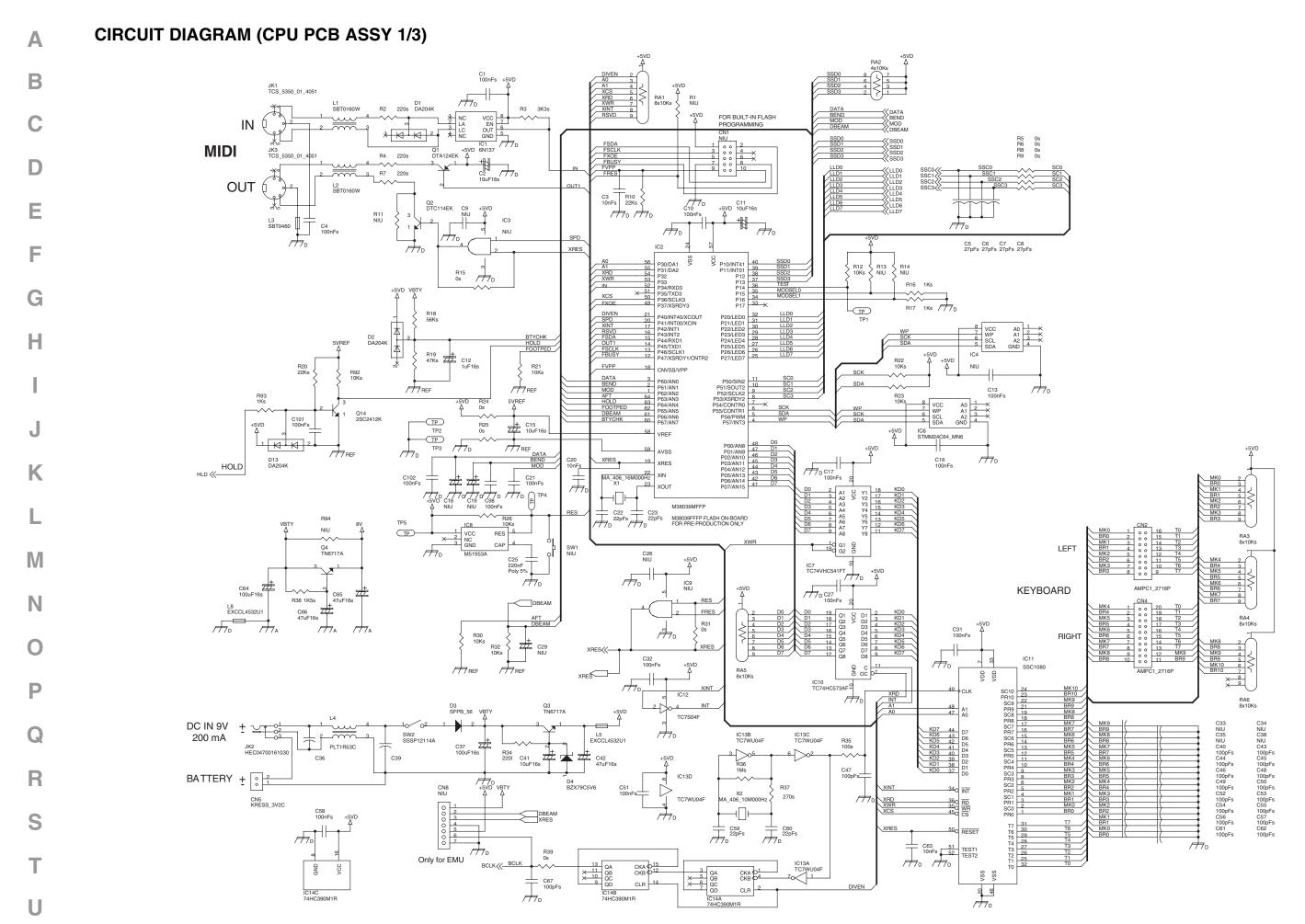
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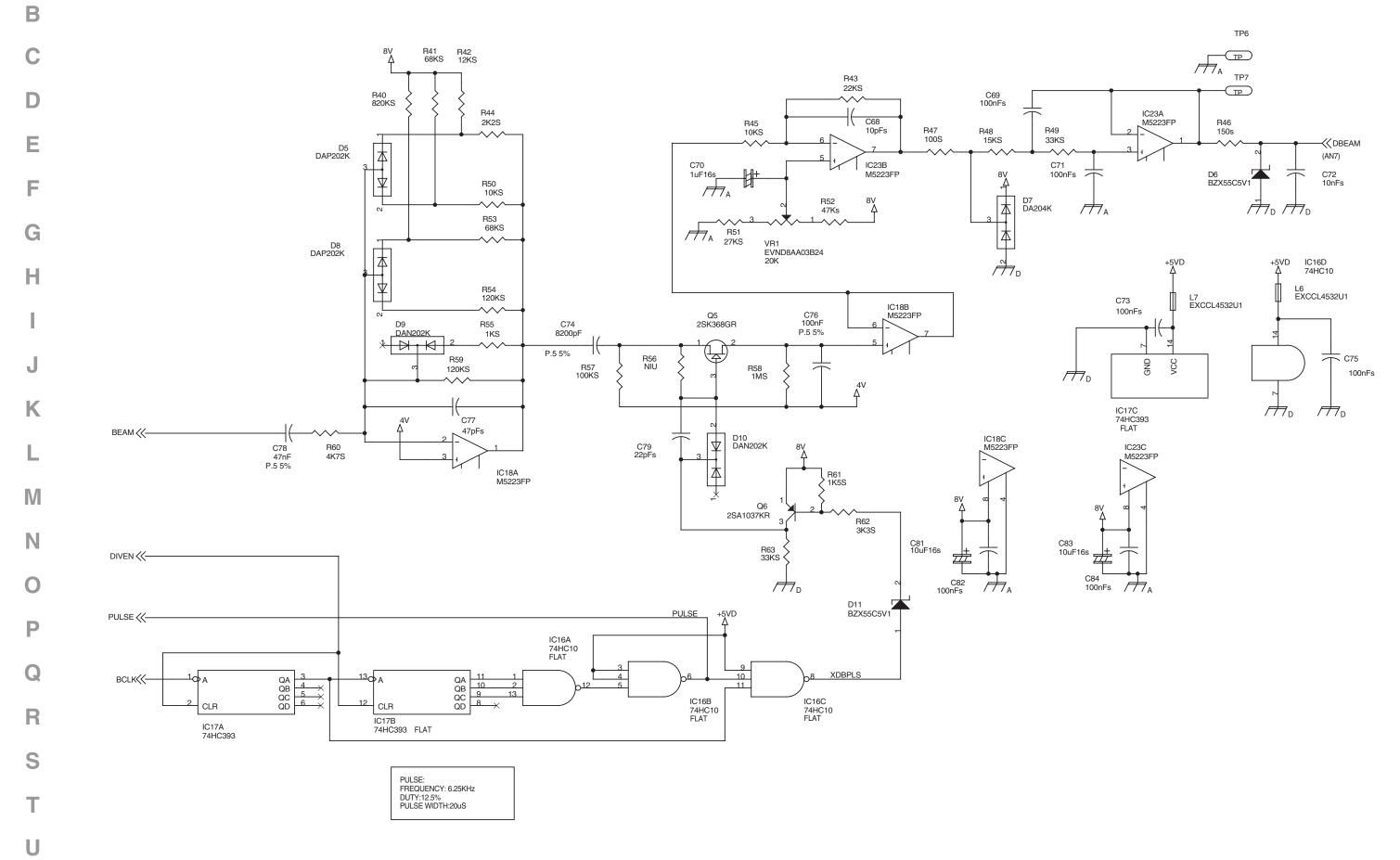
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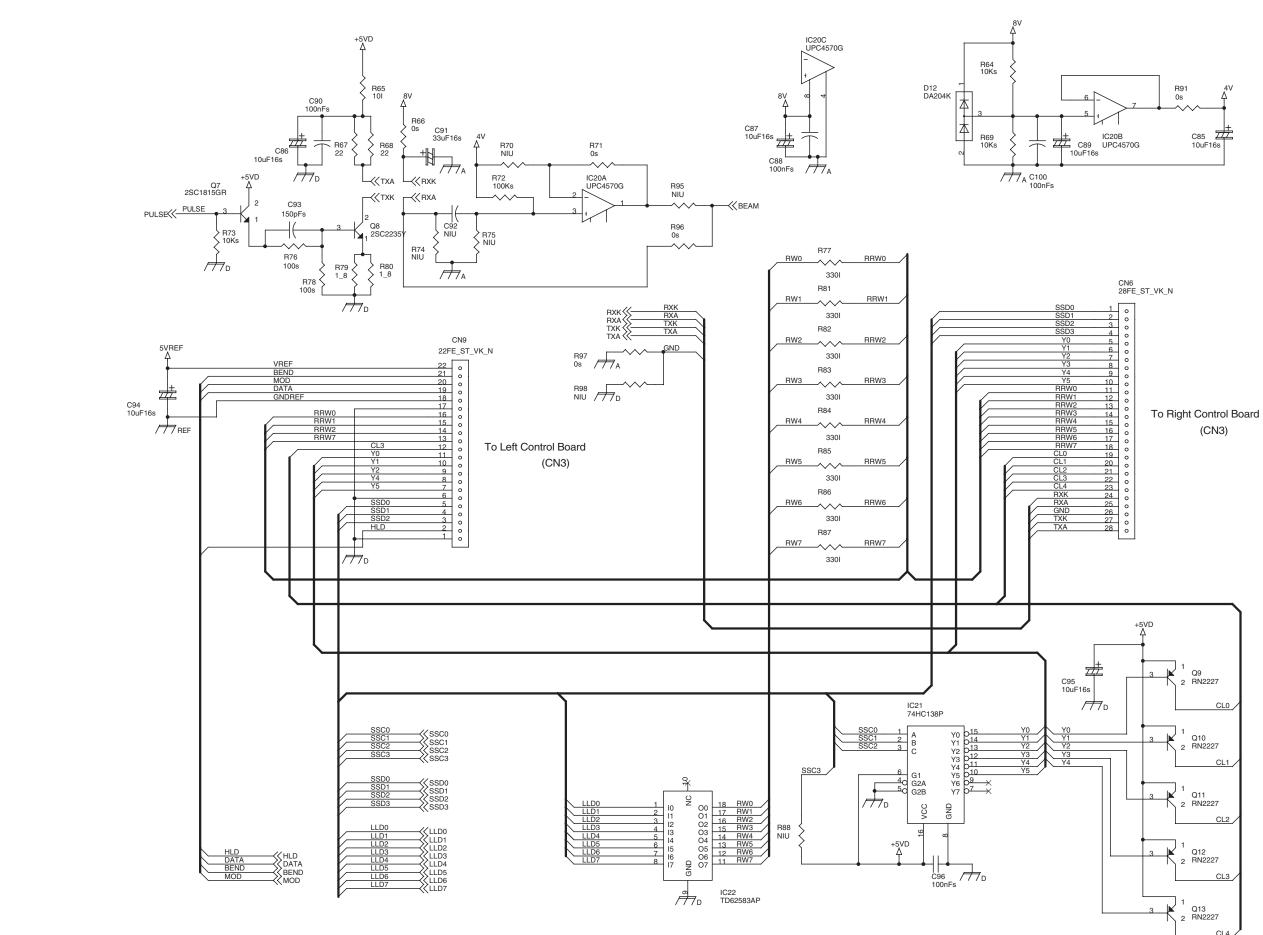
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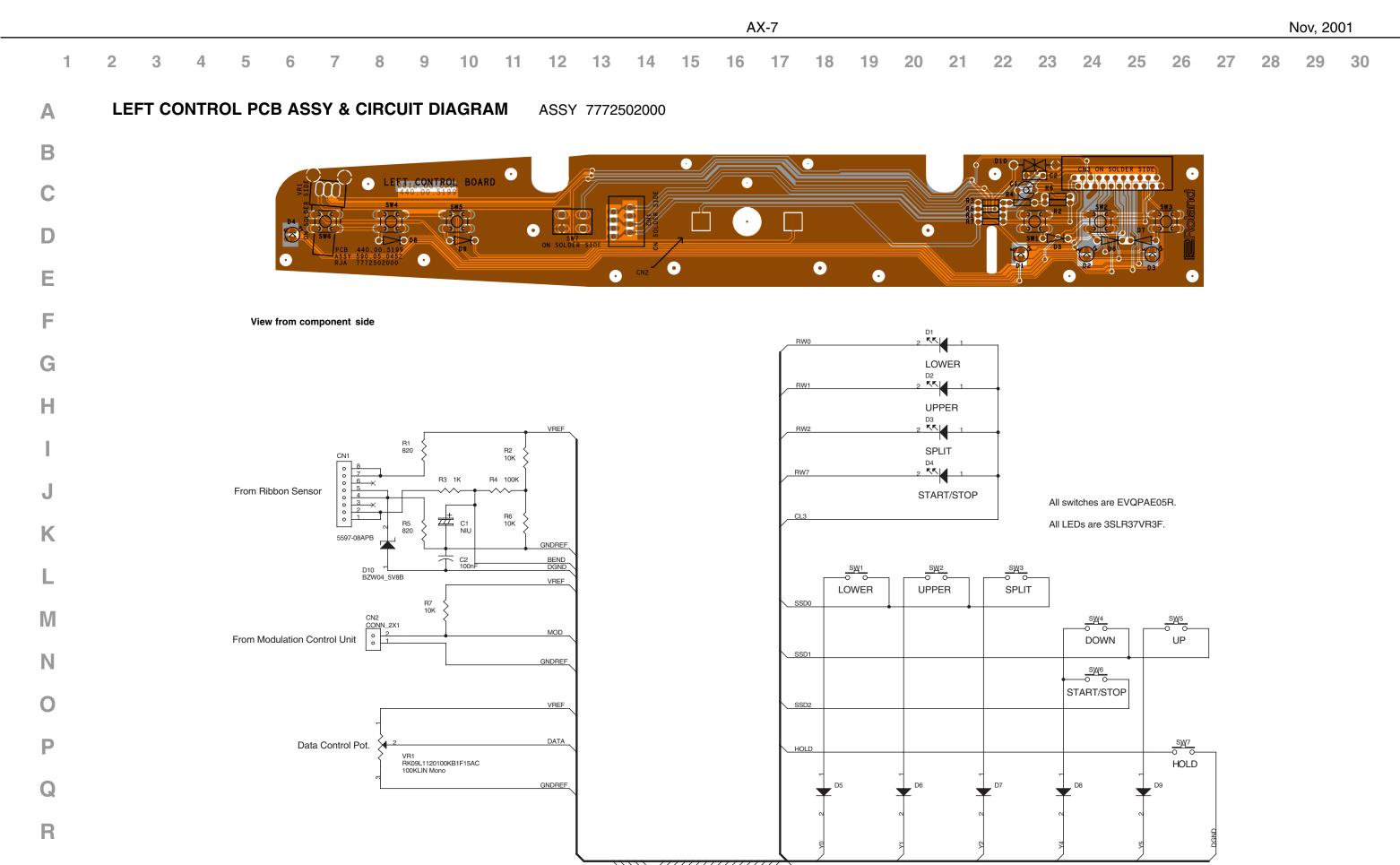
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CIRCUIT DIAGRAM (CPU PCB ASSY 3/3)





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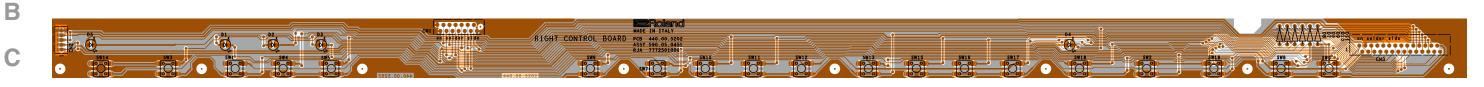
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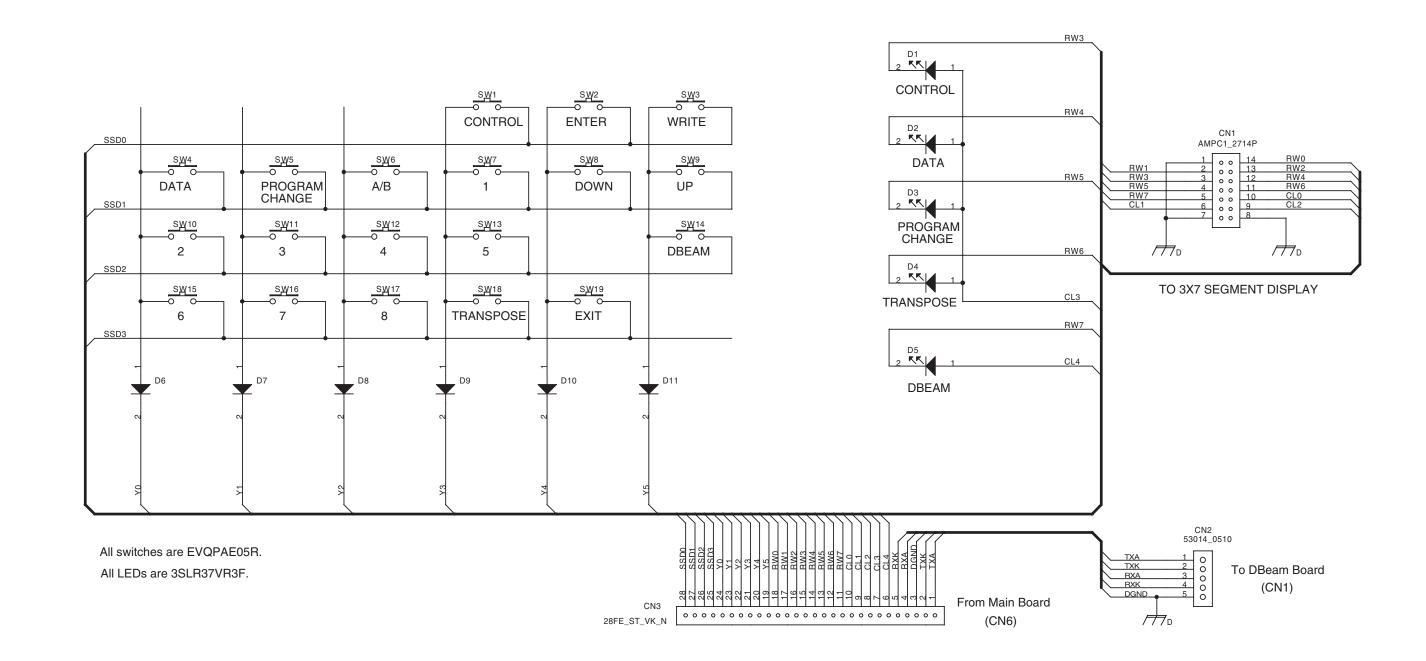
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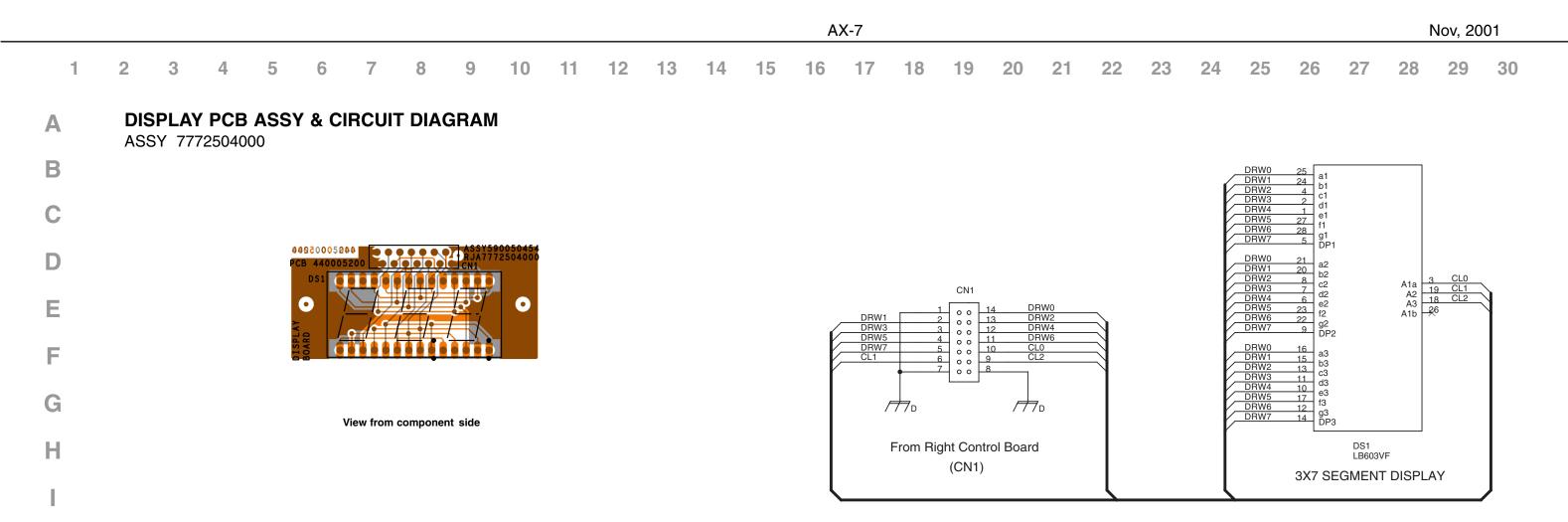
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1 2 5 10 11 12 13 14 15 16 17 18 19 20 21 22 24 25 29 30 3 23 26 27 28

RIGHT CONTROL PCB ASSY & CIRCUIT DIAGRAM ASSY 7772501000





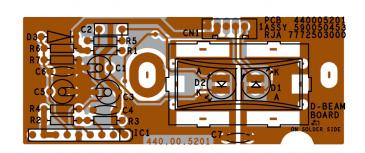


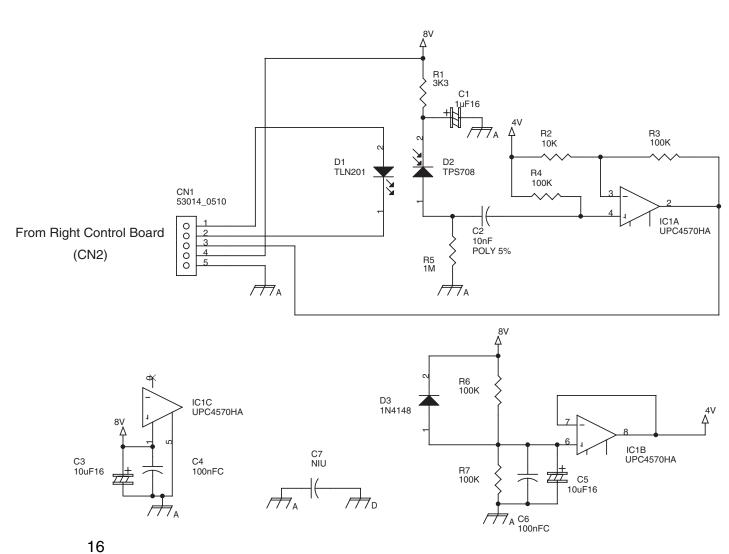
D-BEAM PCB ASSY & CIRCUIT DIAGRAM

ASSY 7772503000

K

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1 29 10 11 12 13 14 15 16 17 18 20 21 22 23 24 25 26 27 28 30

CONTACT PCB ASSY w/RUBBER & CIRCUIT DIAGRAM

ASSY 7695104000

